

**AMENDMENTS TO THE SPECIFICATION**

*In the Abstract:*

Please replace the abstract on file with the abstract below.

Process for producing an ethylene/ $\alpha$ -olefin/non-conjugated polyene copolymer with good polymerization activity and high conversion of non-conjugated polyene, by providing a process for producing an ethylene/ $\alpha$ -olefin/non-conjugated polyene copolymer that comprises copolymerizing ethylene, an  $\alpha$ -olefin, and a non-conjugated polyene in a hydrocarbon solvent with use of a transition metal compound catalyst, and removing the unreacted monomers and the hydrocarbon solvent from the copolymer solution without removing the catalyst residue, wherein the copolymerization is carried out at a polymerization temperature of 100°C or above and a polymerization pressure of 2.7 MPa or above in a manner such that the non-conjugated polyene concentration in the polymerization solution is less than the maximum non-conjugated polyene concentration Cmax (mol/L) as indicated: Cmax = 0.050 (mol/L) when the copolymer has an iodine value (IV) of 9.0 g/100 g to less than 17.0 g/100 g; or Cmax = 0.104 (mol/L) when the copolymer has an iodine value (IV) of 17.0 g/100 g or above.